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NOTICE OF ALLOWANCE AND FEE(S) DUE

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03/12/2008

EXAMINER ENGLAND, DAVID E

PAPER NUMBER

ARTHMU 2143

SUITE 600 DALLAS TX 75201-2980 DATE MAILED: 03/12/2008

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO 09/219.071 12/22/1998 RICHARD E. HEADLEY 063170.7178 2289

TITLE OF INVENTION: SYSTEM FOR SCHEDULING AND MONITORING COMPUTER PROCESSES

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$0	\$1440	06/12/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (rders and notification of a) specifying a new con	maintenance fees espondence address	will be s; and/o	mailed to the current r (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note; Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
5073 BAKER BOTT	7590 03/12 ΓS L.L.P.	/2008		Ce	rtificat	e of Mailing or Transi	nission
2001 ROSS AVENUE SUITE 600			St ad tra	I hereby certify that this Fee(s) Transmittal is being deposited with the Units States Postal Service with sufficient postage for first class mail in an envelop addressed to the Mail Stop ISSUE FIEE address above, or being facsimit ransmitted to the USPTO (571) 273-2885, on the date indicated below.			
DALLAS, TX 7	5201-2980						(Depositor's name)
			-				(Signature)
			L				(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR		ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.
09/219,071	12/22/1998		RICHARD E. HEADLE			063170.7178	2289
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUI		JE FEE	TOTAL FEE(S) DUE	DATE DUE
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ENGLAND	·	2143	709-202000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTOVSB/1/22) attached. "Fee Address" indication (or "Fee Address" Indication form PTOVSB/1/2 or more recent) attached. Use of a Customer Number is required.			(1) the names of up or agents OR, alterna (2) the name of a sin registered attorney o 2 registered patent at	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorny or agent) and the names of up to registered patent attorney or agents. If no name is stick, no name will be printed.			
3. ASSIGNEE NAME A PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIGNAME Please check the appropri	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee detion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	patent. If an assig n assignment. 'Y and STATE OR	COUN	IRY)	ocument has been filed for
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			Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed.				
Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.				
Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number				
	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lo	nger claiming SMA	LL EN	TITY status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than Office.	the applicant; a reg	istered	attorney or agent; or th	e assignee or other party in
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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09/219,071	12/22/1998	RICHARD E. HEADLEY	063170.7178	2289	
5073 75	90 03/12/2008		EXAM	IINER	
BAKER BOTTS L.L.P.			ENGLAND, DAVID E		
2001 ROSS AVEN	UE	ART UNIT	PAPER NUMBER		
SUITE 600 DALLAS, TX 7520	01-2980		2143		

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
09/219,071	HEADLEY ET AL.	
Examiner	Art Unit	
DAVIDE ENGLAND	2143	

The MAILING DATE of this communication appears on All claims being allowable, PROSECUTION ON THE MERITS IS (OR RE herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other NOTICE OF ALLOWABILITY IS NOTA CRANT OF PATENT RIGHTS, of the Office or upon petition by the applicant. See 37 CFR 1.313 and M	EMAINS) CLOSED in this application. If not included ar appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initia
 This communication is responsive to <u>10/26/2007</u>. 	
The allowed claim(s) is/are <u>1-50</u>.	
3. Acknowledgment is made of a claim for foreign priority under 35 a) I b) Some* c) None of the: 1. Certified copies of the priority documents have been r 2. Certified copies of the priority documents have been r 3. Copies of the certified copies of the priority document International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this cnoted below. Failure to timely comply will result in ABANDONNENT of	received.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. \(\subseteq A \text{ SUBSTITUTE OATH OR DECLARATION must be submitted. N.} \)	
INFORMAL PATENT APPLICATION (PTO-152) which gives reason	
CORRECTED DRAWINGS (as "replacement sheets") must be sur (a)including changes required by the Notice of Draftsperson's Pe 1)i hereto or 2)i to Paper No./Mail Date (b)including changes required by the attached Examiner's Amen Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) seach sheet. Replacement sheet(s) should be labeled as such in the head [c]	atent Drawing Review (PTO-948) attached dment / Comment or in the Office action of should be written on the drawings in the front (not the back) of ler according to 37 CFR 1.121(d). BIOLOGICAL MATERIAL must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Paper No./Mail Date Till Examiner's Amendment/Comment 8. Examiner's Statement of Reasons for Allowance 9. Other

Application/Control Number: 09/219,071 Page 2

Art Unit: 2154

DETAILED ACTION

Reasons for Allowance

 The following is an examiner's statement of reasons for allowance: the closest prior art of record (Barroux 6182110 and Li et al. 5596750) does not teach nor suggest in detail, a job scheduling device for scheduling jobs to run on at least two nodes of at least one computing platform, comprising:

- 2. at least two local job repositories, each local job repository installed on a separate one of the at least two nodes and each local job repository configured to maintain job information on each job submitted to the node where the local job repository is installed, the job information including job parameters needed to execute each job; and
- at least two enterprise scheduling agents, each enterprise scheduling agent installed on a separate one of the at least two nodes and each enterprise scheduling agent configured to:
- access the job information maintained by the local job repository;
- schedule for execution each ,lob submitted to the node where the local job repository, is installed:
- determine when to execute each job submitted to the node where the local job repository is installed; and
- 7. launch execution of each job submitted to the node based on the determination;
- a presentation system configured to accept and validate parameters identifying at least one job to be submitted for execution on at least one of the nodes; and

Application/Control Number: 09/219,071

Art Unit: 2154

 a job scheduler configured to allocate at least one job based on the parameters to at least one of the nodes and to submit the allocated jobs to the at least one of the nodes:

Page 3

- 10. wherein the job scheduler is communicatively coupled to the at least two nodes by a network, as taught by the Applicant (see Arguments dated 10/26/2007, pages 17 20; Specification as of 12/22/1998, pages 14 20 and 52 60; and Drawings dated 10/29/2007, Figures 2 7B of Applicant's enabling portions of the specification and drawings).
- 11. Examiner finds Applicant's arguments in regards to the prior art of Barroux and Li persuasive. More specifically, the arguments in regards to the newly amended claim language that teaches, "schedule for execution each job submitted to the node where the local job repository is installed," in combination with each enterprise scheduling agent installed on a separate one of the at least two nodes and each enterprise scheduling agent configured to: access the job information maintained by the local job repository and determining when to execute each job submitted to the node where the local job repository is installed.
- 12. Barroux does teach each node having an agent installed on it but the agents that are installed to not perform the tasks in the system. In columns 18 and 19 of Barroux, it states that the task scheduler uses a SNMP probe to retrieve information from the agents on the nodes and uses that information to process the tasks at the scheduler and not the node itself.
- 13. The prior art of Li also does not teach scheduling jobs for the agents on different nodes and then having the enterprise scheduling agent again schedule for execution each job submitted to the node. Li teaches tasks being linked to roles that are executed by actors (agents). What is also ambiguous about Li is the location of specific actors and the rescheduling that is performed

Application/Control Number: 09/219,071

Art Unit: 2154

at the not where the actor is located. The prior art schedules execution once and then sends the

Page 4

task to a type of agent for execution.

The dependent claims further limit the independent claims and are considered allowable

on the same basis as the independent claim as well as for the further limitations set forth. Any

comments considered necessary by applicant must be submitted no later than the payment of the

issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such

submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

15. Claims 1 - 50 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DAVID E. ENGLAND whose telephone number is (571)272-

3912. The examiner can normally be reached on Mon-Thur, 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan J. Flynn can be reached on 571-272-1915. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2154

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David E. England Examiner Art Unit 2143

/D. E. E./ Examiner, Art Unit 2143

/Nathan J. Flynn/ Supervisory Patent Examiner, Art Unit 2154